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NAL's AWIC Produces Animal CARE CD-ROM

The care and use of animals is the subject of a CD-ROM produced by the Animal Welfare Information Center (AWIC) of the National Agricultural Library and the U.S. Department of Health and Human Services.

According to Jean Larson, AWIC coordinator, the disc, called the CARE (Compendium of Animal RESources) CD, was produced for those using animals in research, testing, and education, including biomedical researchers, veterinarians, animal care regulators, and Institutional Animal Care and Use Committees (IACUC). The Animal Welfare Act requires research facilities using regulated animals to establish IACUC's to evaluate animal care, treatment, housing, and use. The committees report to USDA to assure compliance with the Animal Welfare Act.

"The CARE CD provides quick and easy access through keyword searching to more than 160 documents relating to animal care and use," Larson said. "It will be particularly useful in education and research because it contains the

regulations of the Federal government and the animal care policies of professional scientific societies." Larson said the CD also contains bibliographies of animal care articles as well as the full-text of articles, reports, conference proceedings, and manuals. "Many of the documents on the disc are out-of-print and difficult to locate in either electronic formats or hardcopy," she said. "These appear on the disc with special permission from the authors and publishers."

Among the items included on the disc are: Title 9 Code of Federal Regulations, Subchapter 1, Animal Welfare (1995); Guide for the Care and Use of Laboratory Animals (1996); and the Public Health Service Policy on Humane Care and Use of Laboratory Animals (1996). Also included are the regulations on animal testing of the U. S. Environmental Protection Agency and the Food and Drug Administration; the guidelines of scientific organizations on euthanasia, blood removal, animal shipping, breeding, and health monitoring; manuals and conference

proceedings on animal use in behavioral and neuroscience research, and reptile and amphibian studies; and training manuals for laboratory personnel.

Copies of the disc are available for \$35 each from:

*Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954
fax: (202) 512-2250
telephone: (202) 512-1800*

When ordering, specify stock number 001-000-04634-9.

For additional information contact:
*Animal Welfare Information Center,
5th Floor
National Agricultural Library
USDA, ARS
10301 Baltimore Avenue
Beltsville, MD 20705-2351*

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... and more.

Because We CARE:

kettes. AWIC staff went to work hand-typing, scanning hardcopy, and ordering computer tapes from the Government Printing Office

by Michael Kreger
Technical Information Specialist
Animal Welfare Information
Center

AWIC Produces

The Animal Welfare Information Center (AWIC) has responded to over a quarter of a million requests for information and publications since its inception in 1986. While some requests are from the public, the majority come from groups regulated by the Animal Welfare Act (AWA) including animal researchers, exhibitors, and dealers. A new CD-ROM, CARE (Compendium of Animal Resources), is now available to help answer some of these requests.

Prepared primarily for the biomedical research community, veterinarians, animal care regulators, and Institutional Animal Care and Use Committee members, CARE contains Federal legislation and regulations, policies and guidelines of professional scientific societies, bibliographies, and full text articles and monographs. It is particularly useful in education and research settings.

Five years ago, there were few sources for patrons to get electronic copies of full-text documents about animal care and use. The World Wide Web was not available, gophers held limited information, and databases such as AGRICOLA and Medline contain bibliographic citations and abstracts. Therefore, AWIC frequently received calls for paper copies of Federal laws, regulations, guidelines, and policies that govern animal use in research, teaching, and testing. With only four full-time information specialists handling requests, Jean Larson, AWIC coordinator, suggested making the documents available electronically. This would allow the information specialists to spend more time on complex requests, particularly those from researchers required by the AWA to search for alternatives to painful/distressful procedures.

The electronic documents would take the form of a set of computer dis-

(GPO) to get paper documents into WordPerfect 5.1 and ASCII text. What began as a single diskette, grew into a 5-diskette set of electronic documents. Like all AWIC publications, it was available free of charge provided the patron supplied blank formatted diskettes.

The response to the diskette set from the user community was strong. Ruth Criscio, AWIC's administrative assistant, was burdened with the time-consuming chore of copying groups of files onto the diskettes. Larson suggested a more efficient approach. Why not turn the electronic documents into a CD-ROM? A CD-ROM would be word and Boolean searchable, would hold far more documents, would be catalogued more easily, would save AWIC the time of downloading tens of files per patron, and, most importantly, would provide the research community with a new tool for improving animal care and use.

Larson and Mike Kreger met with John Miller, DVM, former Deputy Director of the Office of Protection from Research Risks (OPRR), National Institutes of Health (NIH) who not only was enthusiastic about the project, but contributed substantial funding. With Federal reductions in personnel, he saw the disc as a way to cut down on the number of requests his office had to fill for copies of NIH documents relating to animal care and use.

AWIC staff announced the project to the Interagency Research Animal Committee (IRAC) in May 1995. The IRAC Committee, headed by James Taylor, DVM, of the NIH Office of Animal Care and Use is composed of members from many Federal agencies. They, too, offered their suggestions and financial support. After research-

a New CD-ROM

ing CD-ROM production companies, AWIC settled on the GPO to produce and sell the disc. GPO would keep the price of the disc for the patron low and provide free copies to depository libraries.

While GPO has used many types of search engines on their CD-ROMs, AWIC selected two software packages so the user could decide which package best fits his/her search needs or computer system. The packages are ReferenceBook and Adobe Acrobat. ReferenceBook provides quick and versatile searching and a "Word Wheel" that allows searching of similar terms. ReferenceBook, however, uses ASCII text with large print, no fonts, and low quality images. Adobe Acrobat displays text and images as they appear in the original hardcopy, but is not as strong a search engine. Both packages work well in a Windows environment, Adobe works better than ReferenceBook on a Macintosh, and only ReferenceBook will run on a DOS system.

Larson was able to get funding for the project from U.S. Department of Health and Human Services, NIH, and U.S. Department of Agriculture, Agricultural Research Service (ARS), and Animal and Plant Health Inspection Service.

While Larson secured funding, Mike Kreger solicited documents deemed important from the research community. Electronic listserves were very useful in reaching hundreds of people quickly and gave AWIC an idea of how important its patrons felt this project was. National and international organizations offered their policy statements on animal use and some of

their most popular publications. An anesthesiologist convinced the editorial board of the Royal Society of Medicine Press to give AWIC permission to use reports on blood sampling, animal transport, and housing published in the journal *Laboratory Animals*. Universities, private industry, and Federal researchers, veterinarians, librarians, and administrators suggested and provided documents. Responses also included many pleas for the disc to be operable in Macintosh and Windows environments.

The listserves were also useful in getting suggestions for the title of the CD. AWIC held a naming contest on the listserve COMPMED. AWIC staff members voted for their favorite. The winning suggestion was *CARE*, an acronym for *Compendium of Animal Resources*.

For more than two years, Tiffanie Farrington, a CD-ROM developer with the GPO, and Mike Kreger wrestled with the variety of electronic formats received from document contributors, photos, tables and graphs, incompatible software formats and updates, and a host of other challenges. Finally, AWIC had the search engines in place and was ready for beta testing.

The seven beta testers were people in the zoo and laboratory animal fields who expressed interest in testing a draft or rough cut of the disc. Their comments were extremely useful in revising the disc for the final cut. They also commented on the 6-page instruction booklet about the disc and how to load it. They pointed out, for example, that Kreger had not written a section for Windows 95 users. The revised booklet became a 16-page manual describing the disc, its system requirements, loading instructions, contents, and contributors. Based on cover art and layout by AWIC information specialist D'Anna Jenson, USDA ARS graphic artist Barbara Allen did the final art and layout for the user's manual and the disc itself.

After months of checking, editing (thanks to ARS editor Ruth Coy), and revising, *CARE* went into production on December 1996. The disc was



photo: J. Swab

The CARE CD-ROM

mastered and released in time for the holidays.

With the growth of the World Wide Web and its easy access, is the CD ROM necessary? After all, some im-

portant legislative documents are now available on the Web. *CARE* is, however, an archive of over 160 documents relating to animal care and use and does not require surfing multiple web sites, and its documents are down-

CARE CD-ROM Is a Hit!

The *CARE* (Compendium of Animal Resources) CD-ROM authored and compiled by the Animal Welfare Information Center (AWIC) and produced in cooperation with the Government Printing Office (GPO) has turned out to be a big hit. AWIC's official contact at the GPO sales office said, "This is one of the hottest-selling discs GPO has ever produced."

As of Aug. 18, 1997, AWIC has distributed 320 discs to cooperators on the project, visitors, and others, GPO has distributed 456 to depository libraries, and GPO has sold 472 copies (an increase of 152 copies since mid-May), for a total of 1248 total.

GPO sold out of its initial pressing, which was produced on estimates based on normal distribution of CD-ROM products. The disc is now in its second pressing, and there are 626 copies still on-hand at GPO.

—Mike Kreger

loaded or printed rapidly. Many documents are difficult to locate in hardcopy or appear on the disc with special permission from the authors and publishers. Because it contains ReferenceBook and Adobe Acrobat software, it is easily word and boolean searchable. CARE CD operates in DOS, Mac, Windows, and Windows 95 environments. It is current through July 1996.

Some documents included are:

- Title 9 Code of Federal Regulations, Subchapter A, Animal Welfare (1995).
- Guide for the Care and Use of Laboratory Animals (1996).
- Public Health Service Policy on Humane Care and Use of Laboratory Animals (1996).
- Environmental Protection Agency and Food and Drug Administration regulations of animal testing.

■ Professional organization guidelines and statements including euthanasia, blood removal, transit of animals, care and breeding of nonhuman primates, and health monitoring.

■ Books, manuals, and conference proceedings on animal care and use in behavioral research, neuroscience experiments, reptile and amphibian studies, education and training manuals for laboratory personnel.

■ 35 bibliographies, resource guides, and fact sheets produced by AWIC at NAL.

■ 6 volumes of Animal Welfare Information Center Newsletter.

■ 18 zoo animal bibliographies and resource guides from the Smithsonian Institution Libraries.

CARE can be ordered from:
Superintendent of Documents
PO Box 371954
Pittsburgh PA 15250-7954
Fax orders to (202) 512-2250
Phone orders to (202) 512-1800

Specify stock # 001-000-04634-9 at \$35 (U.S.) per disc. Prices include regular domestic postage and handling and are subject to change. International customers please add 25%.

For further information, contact:

Tel: (301) 504-6212
TDD/TTY: (301) 504-6856
Fax: (301) 504-7125
Internet/E-mail:
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Or write to:

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AWIC: A Historical Survey of Significant Events — 1986 to the Present — and a Glimpse of the Near Future

by Jean Larson
Coordinator, Animal Welfare
Information Center, NAL

In the 1985 Animal Welfare Act (AWA) amendments, it is interesting to note that there is a mandate for the research community to use emerging, increasingly powerful electronic databases. Possibly this is one of the first times that Congress realized the power of computer databases and purposely ordered their use. Since the U.S. Department of Agriculture (USDA) regulates the AWA, the National Agricultural Library (NAL) was the logical place for Congress to require the development of an animal welfare information program that would be accessible to the regulated community. This

congressional information mandate changed NAL in many ways as the Animal Welfare Information Center took shape and substance. Changes occurred in collection and indexing policies, innovations in information delivery were tried for the first time, and there was recognition of NAL by a new group of users. We have also affected the regulated community, in a positive way I hope, and, in addition, the regulated community has molded us. We are here to serve you.

Personally, I think we have succeeded in meeting our mandate with a program of activities, services and information products that has been more effective and influential than most people expected. No one has ever been

turned away because s/he could not afford to pay for such services or information. At such times, I feel that we have succeeded in giving the taxpaying public the services that Congress expected. I feel privileged to have been allowed the responsibility to develop a program from concept to functional reality; from a non-existent program into an internationally known resource and model.

The process of program development has not always gone as smoothly as hoped, nor have we done everything that we felt was important to do. We didn't have any NAL programs to model since NAL is not a repository of biomedical information as is the National Library of Medicine. We had to

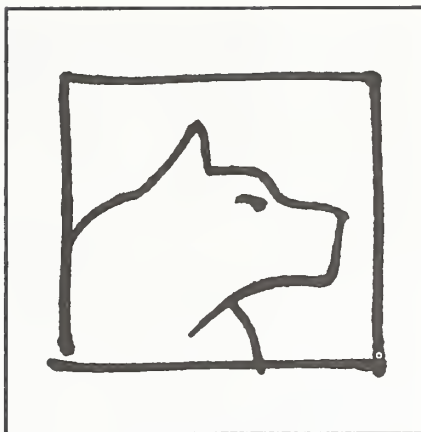
decide what to add to the NAL collection and the AGRICOLA database; some people felt that we were superfluous and really not needed by the potential users. In the face of these challenges, we found a niche that is unique. The program has been productive and stayed focused on those topics that Congress wanted addressed and, in the process, gained a credible reputation. However, there is still much to be done. We would like to continue to meet these challenges for 10 more years. I feel that as long as there is a regulated community, there will be a need for the AWIC program and services.

The rest of this presentation will provide a brief summary of the evolution of the AWIC program, the major accomplishments of the first decade of the program, and what the future may hold.

Many of you have read the text of the 1985 AWA amendments that established the Center. You are aware that we are to provide information to support those people and institutions regulated under the AWA. However, I will briefly review the congressional mandate: the Center is to provide services and information to address employee training for the proper handling of animals, methods to alleviate pain and distress, and alternatives based on the 3 Rs of Russell and Burch [Reduction in the number of animals used, Refinement of techniques and procedures to deduce pain and distress, and Replacement of animal research techniques with non-animal techniques]. We have seldom deviated from this mandate, although you will see publications related to farm animal welfare that we have produced as part of the NAL mission to serve agriculture. The first activities started in 1986.

The Early Years

The earliest reference to the Center is in April 1986. The reference is noteworthy because it uses the title of "Animal Welfare Information Center." Obviously, it had been officially established as the name of the Center. However, I suspect that a name that re-



AWIC Logo.

flected more of the congressional mandate might have been better. Responses by those unfamiliar with AWIC indicate they assume we are a private group unaffiliated with the U.S. Government.

In August 1986, Joseph Howard, Director, NAL, and others attended a meeting with Christine Stevens, Director, Animal Welfare Institute, to discuss the formation of an information service at NAL. Stevens was very interested in how the information service was progressing at NAL since she was

so instrumental in the passage of the 1985 amendments. Other activities included purchasing books and journals and exhibiting for the first time at the annual meeting of the American Veterinary Medical Association.

Initial program funding of \$750,000 for 1 year had passed the House and was due to go to the Senate. It was eventually passed and came through APHIS to NAL. It was only 1 year, mind you. NAL administrators had no idea that there would be funding for anything other than that year!

However, to the surprise of everyone, Congress appropriated \$750,000 again for the program in the fiscal year 1987 budget. Funding uncertainties continued to make planning an ongoing program difficult, but it was beginning to be clear that this was going to become a permanent program at NAL. In February 1987, I was asked to be the acting coordinator of the Center. I had started the Biotechnology Information Center earlier that year and since I was the only person on the NAL staff that had worked with animals in research, I was asked to also take on the position as head of the AWIC program. It didn't look like too much work, so I agreed.



photo: J. Swab

Jean Larson, Coordinator of NAL's Animal Welfare Information Center, receiving a Certificate of Appreciation from Dale Schwindaman, Deputy Administrator of Animal Care (now retired), APHIS, USDA.

Also in 1987, the first additional staff were hired, and it was the year when the AWIC grants program was started. I still consider the grants program one of the ways that we contributed significantly to the generation of useful information products for those using animals in biomedical research. Through the years, many outstanding projects were completed. Overall, I think we got a lot of bang for the buck. I am sorry we no longer have grant funds.

In 1988, AWIC staff began to produce subject-oriented bibliographies and to grapple with how to do an "alternatives search." It is interesting to note that this was the first year that we started to disseminate information electronically. AWIC funds were used to develop a bulletin board system at NAL. The system was named the Agricultural Library Forum. This sounds lofty until you use the acronym — ALF. I seldom used that acronym in public as you can imagine! Over the years many AWIC publications have been made available on that system. Time marches on even for bulletin boards, and the system has been replaced with a World Wide Web home page.

Although the Center was becoming recognized as a source of information on the care and use of animals in commercial enterprises (our requests had topped the 1,000 mark), the program suffered from disruptions caused by uncertain year-to-year funding. This dilemma was recognized by Stevens, and I believe it was mostly through her efforts that the funding was transferred to NAL for FY 1989. The certainty of funding allowed the program really to begin to grow and blossom.

There were a lot of "firsts" in 1989. The first information product funded by AWIC was a comprehensive bibliography, *Laboratory Animal Welfare*, compiled by the Scientists Center for Animal Welfare (SCAW). It was the first of several SCAW publications that we supported.

Another major event that involved the staff was the production of a videotape about the products and services of AWIC, *Resources Today for the Research of Tomorrow*. We all got to be

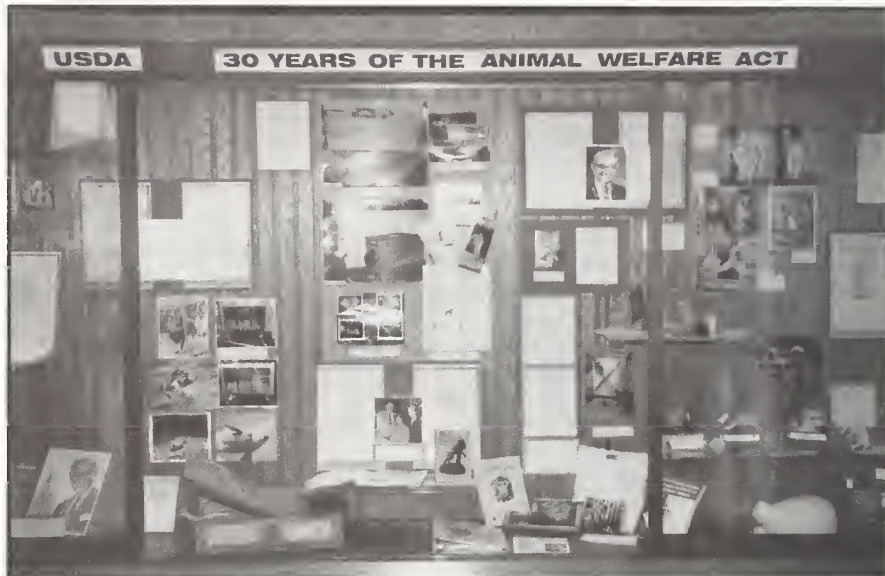


photo: J. Swab

The center section of the NAL exhibit: USDA—30 Years of the Animal Welfare Act.

stars in that one. We shared our stardom with people from other facilities — Kathy Nepote of the University of Maryland, Stephen Shiffer of Georgetown University Medical School, and Peggy O'Neill of the National Institutes of Health. If you have looked at the tape, you may say that you didn't see O'Neill. You are right, the primates were so obnoxious and so noisy during the taping, that there was no good footage to put into the final film! Most of the 1,500 or more copies are still being used as a training video around the country.

For the first time, AWIC program and usage statistics were included in the annual report that APHIS produces for Congress on animal welfare activities. In 3 years, the user statistics had increased from 0 to 1,523 reference requests answered and 12,900 publications distributed!

The Later Years

In 1990, we published the first *AWIC Newsletter*. Little did we know that our modest attempt at communicating with our users would end up expanding from 4 pages to 24 and from a mailing list of a few hundred in the United States to over 6,500 people in 41 countries.

It is clear that AWIC has advanced

from an unknown to an internationally known resource in the last decade. By way of illustration, while completing a recent monthly report, we noted that we had requests for our publications from Sweden, Switzerland, India, Hong Kong, Denmark, Germany, the Netherlands, Canada, Australia, Puerto Rico, and South Korea. [Editor's note—AWIC was recently asked to cooperate with USDA's Animal and Plant Health Inspection Service Emergency Programs and the Government of Taiwan as it battles a serious outbreak of foot-and-mouth disease that threatens the Taiwanese swine industry.] This list over the years has included most major countries. Lest you worry that we are only sending out materials and not receiving anything back, let me reassure you. It appears that as a result of our generosity, we have been sent many publications and subscriptions that are now included in the NAL collection. It is my experience we have gained many items that would be difficult to obtain any other way.

Also in 1990, we published what may end up being considered our most useful grant product. We entered into a cooperative agreement with Dr. Taylor Bennett of the University of Illinois at Chicago to produce a manual of basic animal handling research procedures. The manual is entitled *Essentials for*

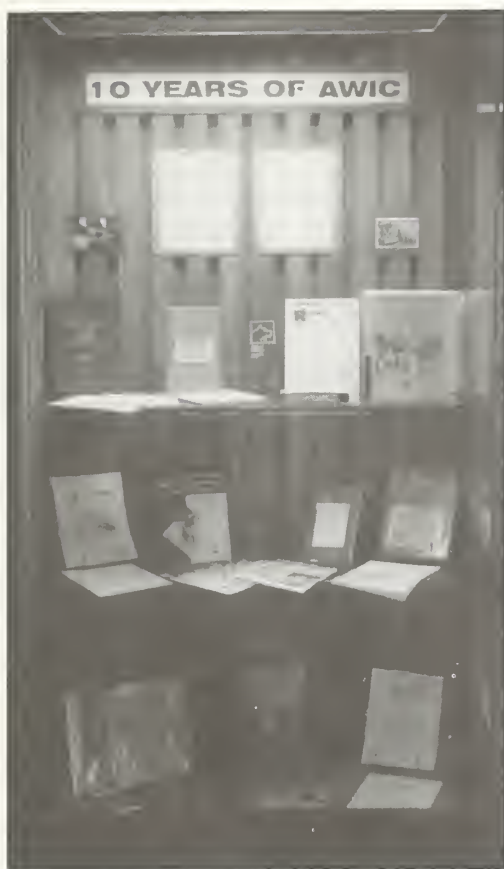


photo: J. Swab

The NAL exhibit: 10 Years of AWIC.

Animal Research: A Primer for Investigators. It was our largest print run ever. More than 7,000 copies were printed and distributed within about 2 years. This document has been used by many institutions as a textbook for beginning students, a laboratory resource, a library reference book, etc. We recently published a second edition which was distributed in both electronic and paper copy. It is now once again out-of-print but is available on the NETVET WWW site at:

< netvet.wustl.edu/org/awic/bib/essentia.htm >

We began collaborations with other groups when we worked with the National Institutes of Health, Office of Protection From Research Risks, and the National Library of Medicine to produce *Information Resources for Environmental Enrichment of Primates*, a bibliography and resource manual on psychological well-being of primates. The availability of the document from NAL/AWIC was announced in the *Federal Register*. This publication has also been updated with the help of additional collaborators—the Primate Infor-

mation Center, and Dr. Viktor Reinhardt.

Our first venture into the training arena occurred May 23-24, 1991, when we held a workshop at NAL on *How to Use NAL for Animal Welfare Information*. We still conduct this workshop—now titled *Meeting the Information Requirements of the Animal Welfare Act*—as a regularly scheduled activity. Normally, we conduct it at NAL three times per year. We also take it on the road to distant venues on a cost-recovery basis. We have provided it to major companies such as Johnson and Johnson, 3M, and Monsanto, to staff at several universities, and as a continuing education course for librarians and scientists. Actually, for those who take the course at NAL, they receive certificates signed by the Director of the Library and the APHIS Deputy Administrator for Animal Care. Over 2,000 people have taken some form of the class, and participants have come from as far away as Germany, Canada, and Puerto Rico.

In 1991, AWIC won the American Library Association's John Cotton Dana Award for outstanding public relations among special libraries. The citation reads "For a multifaceted public relations program to increase awareness and use of the Animal Welfare Center through effective outreach activities." It was a nice moment of recognition for a creative, dedicated, and hard-working staff.

In 1992, we began a collaboration with Dr. J. Fox of the Massachusetts Institute of Technology to produce a bibliography on ferrets used in biomedical research, *Ferrets as Laboratory Animals, A Bibliography*. This has proved to be so comprehensive that a group organized to provide information on ferrets has used it as the basis of a database of bibliographic information on ferrets.

The year 1992 was also the beginning of an initiative of the Johns Hopkins Center for Alternatives to Animal Testing to convene a congress, in Baltimore, on the topic of alternatives and animal use in the life sciences. AWIC supported this effort with funding and planning time. This initiative, *The First World Congress on Alternatives and Animal Use in the Life Sciences: Education, Research, and Testing*, was attended by about 600 people from around the world. It was considered so successful that a second Congress was held in Utrecht, The Netherlands, in October 1996. A third Congress is being planned for Italy in 1999.

AWIC also provided the important level of funding for the *First International Conference for Veterinary Information Specialists*. It was held in 1992 in Reading, England. We were able to interact with people from Africa, all of Europe, South America, etc. Again, this has turned into an ongoing activity. In 1997, there will be a conference in Frederiksberg, Denmark.

In the last few years, we have had several fruitful collaborations with both the Universities Federation for Animal Welfare (UFAW) of the United Kingdom and with the Ministry of Agriculture and Fisheries (MAF) of New Zealand. With UFAW we produced the recently published *Environmental Enrichment Information Resources for Laboratory Animals* and with MAF we have exchanged many important publications. We now have a complete set of MAF's codes of practice that detail appropriate care and husbandry of animals in New Zealand. These have been used by USDA staff who have been working on regulations for farm animals used in biomedical research.

AWIC staff have provided extensive searches for the committees that worked to update the Institute of Laboratory Animal Resources (ILAR)



photo: J. Swab

In connection with the 10th Anniversary of NAL's Animal Welfare Information Center (AWIC) and the 30th Anniversary of the Animal Welfare Act, AWIC and APHIS' Animal Care division held a symposium which was the first major event of its kind to bring the research and animal rights people together to hear one another speak. Symposium organizers included (L-R) Dale Schwindaman, D.V.M., Deputy Administrator, APHIS Animal Care; ; Tim Allen, AWIC, Symposium Coordinator (with symposium poster); Richard Crawford, D.V.M., AWIC; D'Anna Jensen, AWIC; Mike Kreger, AWIC; and Debra Beasley, V.M.D., Animal Care Staff, APHIS. Not pictured were Jean Larson and Cynthia Smith, AWIC, and Joy de Arce, APHIS, Animal Care.

Guide for the Care and Use of Laboratory Animals, and for the *Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching*.

One offbeat activity for the AWIC staff was being filmed for the Italian TV program *Super Quark*, which specializes in science and technology issues.

Before saying a few words about the future, I would like to give you some usage statistics for some of the basic activities of AWIC.

In our first 10 years we have:

- Answered over 12,000 reference requests
- Responded to about 20,000 requests for publications

- Distributed over a quarter of a million paper publications
- Interacted with 30,000 to 40,000 people at conferences, presentations, and workshops
- Trained more than 2,000 people at our AWA workshops

About 45 percent of our users are researchers, technicians, veterinarians, IACUC members and exhibitor/dealers, 30 percent are educators or students and organization members, and the rest are government, Members of Congress, private citizens, librarians, etc.

A Glimpse of the Near Future

As you might imagine, AWIC staff are actively involved in using the power

of the Internet to disseminate information faster in a more cost-effective way. I would like to mention several important electronic initiatives that are in the works.

1. Many of the AWIC documents have been available on Internet via NETVET at Washington University. But, D'Anna Jensen will begin the process of bringing the AWIC documents back to the NAL server, expanding the files and adding additional information and links, and making them available to the regulated community through the NAL home page.

2. The *CARE (Compendium of Animal Resources)* CD-ROM is now available. Mike Kreger has been working with electronic files for several years now, and has spent a good part of the last year working on this project. His efforts have resulted in a disc that includes many of the major federally produced and organizational documents regarding the use of animals in research, testing, and exhibits—163 documents in all. Even the new *ILAR Guide for the Care and Use of Laboratory Animals* is on the CD. Many organizations were involved in the project by providing about \$30,000 in funding, helping to put information into electronic format, providing electronic text, proofreading, beta testing, etc. We are hoping the CD will be considered a valuable resource that will provide quick and complete answers to questions that can only be answered from these documents. One-stop electronic shopping! [See the companion article on *CARE* in this issue of *ALIN*.]

3. We plan to put parts of the previously mentioned workshop *Meeting the Information Requirements of the Animal Welfare Act* into electronic format and make it available on the NAL/AWIC WWW site. We also have plans to put the newsletter on the WWW with linkages to other sites related to the subject matter of the articles.

4. In keeping with the long history of collaborations to produce information products, and to expand the use of currently available resources at diverse sites, we have become involved in an innovative, Internet-based project, the

Alternatives to Animal Testing Website. It resulted from the awareness of a number of forward-thinking people, who realized that electronic technology can now be harnessed to help address some of the problems researchers face in readily assessing useful information on the best available procedures for different research questions including reduction, refinement, or replacement alternatives. It is broadly recognized that searching for information on alternatives, as required by the AWA, presents difficult problems—for example, universal access to available information resources and identification of the most useful scientific literature. It was with these problems in mind that members of the initial coalition of organizations—Procter and Gamble (P&G), the Humane Society of the United States (HSUS), the Johns Hopkins Center for Alternatives to Animal Testing (CAAT), the National Institutes of Health's Office for Protection from Research Risks (OPRR), the Food and Drug Administration's Office of Science, Utrecht University in the Netherlands, USDA's Animal & Plant Health Inspection Service (APHIS), and AWIC—agreed to do something about finding a solution. It was decided to build a global consortium to support, coordinate, identify, harmonize, and develop information systems containing bibliographic and evaluative technical information available to help investigators address the 3 Rs of alternatives. Ideally, this would be one-stop shopping on the Internet.

The initial planners have offered monetary resources and/or products and services—databases, computer expertise, subject-matter expertise, etc. AWIC will contribute relevant electronic products as well as the AWIC staff time and expertise in searching for alternatives to painful procedures. P&G and HSUS have agreed to contribute seed money to cover initial planning, administrative, hardware, and software costs.

Such an electronic-based system will require additional funds, resources, technical guidance, and the efforts of many groups to bring it to fruition. We invite your support with ideas and resources—be they electronic or mon-

etary—to participate in this initiative so we can begin to deal more effectively with helping investigators find the best available research models.

The Animal Welfare Information Center has faced many hurdles in its

first 10 years. As with all Federal agencies, we are being asked to provide continuing services with fewer resources. It is through collaborations such as this that AWIC will continue to provide quality information resources to our patrons during our second decade.

AWIC Cohosts Animal Welfare Act Symposium

by Michael Kreger, AWIC, NAL

In early 1996, the Animal Welfare Information Center (AWIC) staff was discussing how best to commemorate the 10th anniversary of the center. Possibilities included a banquet with a guest speaker or a special issue of the *Animal Welfare Information Center Newsletter*. Realizing that 1996 also marked the 30th anniversary of the Animal Welfare Act (AWA), we felt a symposium celebrating both anniversaries would best serve our patrons, result in a proceedings of historical im-

portance, and allow us to try our hand at symposium planning.

The symposium became a collaborative effort headed by AWIC and the Animal and Plant Health Inspection Service/Animal Care (APHIS/AC). Both groups funded the 1-day event. Non-government groups that were instrumental in the passage and development of the Animal Welfare Act also supported the symposium. WARDS (Working for Animals Used in Research, Drugs, and Surgery), Inc., paid for refreshments at the two breaks.



photo: J. Swab

Staff of WARDS, which provided funding for the AWA Symposium, and APHIS and AWIC with the WARDS exhibit: (L-R) Richard Crawford, Christopher Byrnes (WARDS), D'Anna Jensen, Tim Allen, Mike Kreger, Joe Venable (Director, WARDS), and Debra Beasley (APHIS).



photos: J. Swab

Frank Mulhern



Dale Schwindaman



Keith Russell



Christine Stevens

WARDS, Inc., will also be funding and publishing the conference proceedings with additional funding from the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC) and the Animal Welfare Institute (AWI). Travel expenses for Dr. Frank Mulhern, the first APHIS Administrator and under whose watch the Animal Welfare Act was born, were also funded by AWI.

The symposium was held at the USDA Center in Riverdale, Maryland on September 26, 1996. It was the first time a celebration has been held for either the AWA or AWIC. In the 1960s, Congress received more mail about animal care issues than both civil

rights and the war in Viet Nam. Animal protection is still an issue that captures the media and generates debate. Now, after the Act's 30-year history of public debate, lawsuits, and regulations, this was an opportunity for the major players to tell their stories and reflect on their challenges and successes. It was also a chance for groups affected by the Act to present their visions for its future.

The morning sessions were moderated by Dr. Dale Schwindaman, then Deputy Administrator of APHIS/AC. After welcome speeches were made by the host organizations—Keith Russell, NAL Deputy Director, represented the National Agricultural Library—,

Christine Stevens, founder and President of the Animal Welfare Institute (AWI) gave the historical background that led to the 1966 Act. Mrs. Stevens is widely regarded as the "Mother" of the AWA since she has been active in raising public and Congressional awareness of problems in animal care from before passage of the Act through all of its subsequent amendments.

The next talks related to the government perspective on the 1966 AWA and its four amendments. The speakers were former APHIS administrators or staff members who were intimately involved in enforcing the Act as well as writing its regulations. One of the speakers was AWIC's own Dr. Richard Crawford. Before coming to AWIC, Dr. Crawford was APHIS' Assistant Deputy Administrator for Animal Care. He sifted through 36,000 public comments on the 1985 amendments before writing the regulations, some of which define the roles of AWIC.

Following the morning break, Dr. Lewis Smith of USDA's Agricultural Research Service (ARS) discussed ARS policy on farm animals used in research. Jean Larson then gave a 10-year retrospective of AWIC. Jean has been AWIC's coordinator since its inception.

The lunchtime speaker was Michael Dunn, Assistant Secretary of Agriculture, Marketing and Regulatory Programs. Mr. Dunn expressed USDA's commitment to improving animal care and use. He also discussed the APHIS/AC strategic plan which will

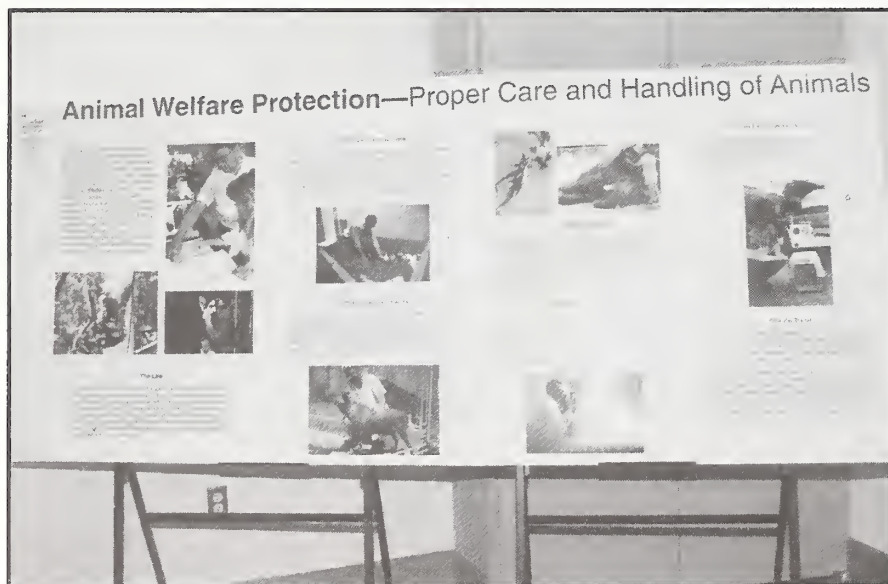
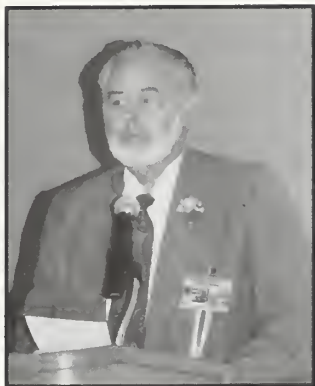


photo: J. Swab

The APHIS exhibit at the Animal Welfare Act Symposium.



Richard Crawford



Lewis Smith



Jean Larson



Michael Dunn

photos: J. Swab

improve enforcement of the Act even during times of financial constraint.

AWIC staff member Tim Allen moderated the afternoon session which featured speakers from animal industry and humane groups. Representatives from animal industry groups affected by the AWA were American Zoo and Aquarium Association, International Air Animal Transport Association, American Veterinary Medical Association, Pet Industry Advisory Council, and National Association of Biomedical Research. Animal protection groups that were represented include the Animal Welfare Institute, American Humane Association, Animal Legal Defense Fund, and the Humane Society of the United States. Despite their diverse and sometimes polarized views of the necessity of the legislation and what should be regulated, all speakers expressed a desire to work together and with APHIS on future regulatory issues. They also pleaded for APHIS/AC budget increases and better enforcement of existing regulations.

Following a panel discussion with the organization representatives, APHIS/AC field inspectors discussed their perspectives and future directions based on what they experience when visiting animal facilities. The inspectors covered animal exhibitors, dealers, carriers, researchers.

Over 150 people attended the symposium representing a broad spectrum of philosophical views and general interests. The attendees included lab-

oratory animal researchers, animal protectionists, students, philosophers, zoo and aquarium staff, government and non-profit organizations. Well-known figures in the development of the AWA were present in the audience and were asked to address the group. Anne Cotrell Free, a nationally-syndicated columnist in the 1950s and 1960s, covered general animal welfare issues that exposed deplorable conditions for laboratory and pound animals. Her writing helped create the climate that motivated Congress to pass an act protecting pets and laboratory animals. Barbara Orlans, a professor at the Kennedy Institute of Ethics, Georgetown University, was another participant; she has promoted the development of Animal Care and Use Committees, founded the Scientists Center for Animal Welfare, and teaches courses on the use of animals in research and teaching for scientists and administrators. Former U.S. Senator John Melcher (D, Montana) was also in the audience. Sen. Melcher, a veterinarian, was responsible for helping to pass the 1985 amendments to the Act which included the formation of AWIC. He is credited for making psychological

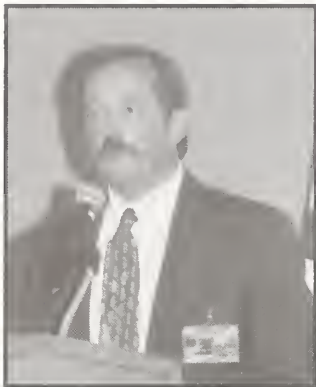
well-being of nonhuman primates and exercise for dogs legal requirements.

A free half-day version of the AWIC workshop Meeting the Information Requirements of the Animal Welfare Act was offered at NAL the morning after the symposium with optional tours of the Beltsville Agricultural Research Center or the National Wildlife Visitor Center offered in the afternoon. The workshop attracted 50 participants.

The final anniversary event was an exhibit at NAL on 30 years of the Act and 10 years of AWIC. Artifacts including newspaper articles from the 1960s, lifesize photostats of the AWA and Amendments signed by Presidents Johnson, Nixon, Ford, Reagan, and Bush, photographs, laboratory animal enrichment devices such as toys, a transport crate for rodents, and other materials filled two showcases. The exhibit was photographed and videotaped for possible future use as an interactive module about the history of the AWA which will be put on the AWIC website. Contributors of the historic information and artifacts in-

AWA Symposium Proceedings

Publication of the *Proceedings of the Animal Welfare Act Symposium* is being funded by WARDS, Inc. (Working for Animals Used in Research, Drugs, and Surgery), AAALAC International (Association for Assessment and Accreditation of Laboratory Animal Care), and AWI (Animal Welfare Institute). NAL's AWIC staff are currently preparing the papers and materials, and WARDS, Inc., will publish the *Proceedings* by the end of 1997 or early 1998.



Tim Allen



Anne Cotrell Free



Barbara Orlans



John Melcher

photos: J. Swab

clude AWI, WARDS, AAALAC International, Charles River Laboratories, Anne Cotrell Free, New Jersey Association for Biomedical Research, National Archives, National Institutes of Health, Dr. Viktor Reinhardt, and

R.W. Johnson Pharmaceutical Research Institute.

A hundred years from now, someone will write a book about the history of animal welfare in the United States.

The symposium from September 1996 will leave a written and video testament in the words of those who have been involved in what is now still a recent social and regulatory issue. AWIC is proud to be part of that history.

Animal Welfare Act Symposium Speakers

Introductions and Welcome

Dale Schwindaman, APHIS Deputy Administrator/REAC*

Terry Medley, APHIS Administrator

Keith Russell, NAL, Deputy Director

John Melcher, D.V.M. (Former U. S. Senator, Montana)

Historical Motivation

Christine Stevens, President, Animal Welfare Institute

Government Perspective on Regulations

1966, Frank Mulhern, APHIS Administrator in 1966

1970, Dale Schwindaman, APHIS Deputy Administrator/REAC*

1976, Robert Whiting, Virginia Dept. Agric. (with APHIS in 1976)

1985, Richard Crawford, NAL/ AWIC (with APHIS in 1985)

1990, Debra Beasley, APHIS/AC

Agricultural Research Service

Lewis Smith, NPL, Animal Nutrition/Aquaculture

Julie Morrow-Tesch, Farm Animal

Behavior Unit

Animal Welfare Information Center

Jean Larson, NAL/AWIC Coordinator

Panel Discussion

Michael Dunn, Assistant Secretary of Agriculture, Marketing and Regulatory Programs

Industry and Humane Groups Viewpoints

Industry Groups

Exhibitors, Kris Vehrs, American Zoo and Aquarium Association

Carriers, Carl Kole, Air Transport Association

Research, Bernadette Dunham, American Veterinary Medical Association

Dealers, Marshall Meyers, Pet Industry Joint Advisory Council

Barbara Rich, National Association of Biomedical Research

Humane Groups

Cathy Liss, Animal Welfare Insti-

tute

Adele Douglass, American Humane Association

Valerie Stanley, Animal Legal Defense Fund

Martin Stephens, Humane Society of the United States

Panel Discussion

USDA Perspective and Future Directions

Exhibitors, Scott Price, APHIS/AC Carriers, Ralph Ayers, APHIS/AC Dealers, David Sabala, APHIS/AC Research, Sylvia Taylor, APHIS/AC

Conclusions

Dale Schwindaman, APHIS Deputy Administrator/REAC*

Photographs by:

Joseph N. Swab, ALIN Editor, NAL

*Dr. Schwindaman has since retired. In 1996 REAC was reorganized under APHIS, splitting it in two: RE—Regulatory Enforcement, and AC—Animal Care.



Terry Medley



Robert Whiting



Debra Beasley



Julie Morrow-Tesch



Kris Vehrs



Carl Kole



Bernadette Dunham



Marshall Meyers



Barbara Rich



Cathy Liss



Adele Douglass



Valerie Stanley



Martin Stephens



Scott Price



Ralph Ayers



David Sabala



photo: J. Swab

Sylvia Taylor



(Top right) Exhibits at the Animal Welfare Act Symposium included the classic *Life* magazine issue that featured Stan Wayman's photo article "Concentration Camps for Dogs" about collection and holding areas for animals used in research [60(5):22-23ff.] Also shown is the photo of President Lyndon Johnson presenting the first Animal Welfare Act in 1966 to Frank J. McMahon, Director of Field Services, Humane Society of the U.S.



photos: J. Swab

(Middle and right) Some of the participants in the Animal Welfare Act Symposium. In the photo at right the Animal Welfare Information Center's exhibit can be seen beyond the audience. A videotape of the Symposium was made and copies will be available in the NAL collection once the *Proceedings* have been published (late 1997 or early 1998).





News Notes

Online Reference Help Now Available Through AgNIC

Personalized help in finding answers to questions related to specific areas of agriculture is now available online through a pilot program of AgNIC (Agricultural Network Information Center), a distributed network that facilitates world-wide access to agriculture-related information, experts, and other resources. AgNIC is an added-value service site on the Internet's World Wide Web jointly sponsored and maintained by the National Agricultural Library (NAL) and a collaborative alliance that presently consists of the land-grant university libraries that are also participating in the reference pilot project.

Through AgNIC, NAL and the participating libraries are providing world-wide online reference services on animal and plant sciences, food and nutrition, rangeland management, rural information, and USDA agricultural economic research and statistics. The official pilot project began September 1, 1996, and runs through May 1997; however, services will be continued during the evaluation period.

"Under the program, called the AgNIC Online Reference Pilot Project, the participants have established *centers of excellence* at four university libraries and NAL," said NAL Director Pamela André. "Through AgNIC, users can get assistance from research librarians at these centers of excellence on matters related to specific areas of agriculture." André said that this assistance includes links to other Internet

accessible resources, answers to specific questions or personalized help in finding answers.

The universities participating in the project and their subject areas of focus are Iowa State University (animal sciences), the University of Nebraska (plant sciences), the University of Arizona (rangeland management), and Cornell University (USDA agricultural economics research reports and data sets). NAL is responding to questions on food and nutrition and rural information.

"Through the pilot program, we want to determine the feasibility of libraries' providing this level of reference assistance to our online users," André said. "We'll make this deter-

mination when we evaluate the project this summer."

According to André, "Through AgNIC, users can *surf* the system themselves to find needed information. With the AgNIC OnLine Reference Pilot Project, however, users receive direct assistance from a librarian or information specialist in finding needed information."

AgNIC and the pilot project can be accessed through the Web at URL:
<http://www.agnic.org>

For additional information about AgNIC, contact Richard Thompson at:
Telephone: (301) 504-5018
TDD/TTY: (301) 504-6856
FAX: (301) 504-5472
Internet: rhomp@nal.usda.gov

Or write to:

Richard Thompson, AgNIC
Coordinator
Information Systems Division,
Room 204
National Agricultural Library,
USDA, ARS
10301 Baltimore Avenue
Beltsville, MD 20705-2351

NATDP Announces 3rd AGRONOMY JOURNAL CD-ROM

The National Agricultural Text Digitizing Program (NATDP), in cooperation with the American Society of Agronomy (ASA), has published the *AGRONOMY JOURNAL VOLUMES 23-28 (1931-1936)* on CD-ROM. This third disc in the *Agronomy Journal Series* contains Volumes 23-28 of the *Journal of the American Society of Agronomy* and covers the years 1931 to 1936. The approximately 6900 page-images are linked to searchable bibliographic records created by NAL's Indexing Branch and downloaded from AGRICOLA.

This disc, like earlier NATDP CD-ROMs, was created using Windows Personal Librarian (WPL) from Personal Library Software of Rockville,

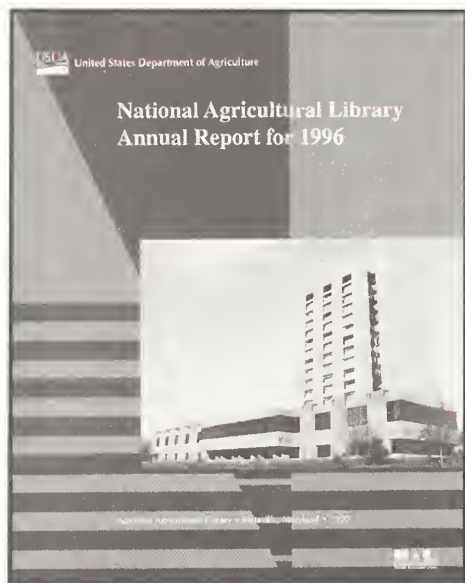
MD. The WPL retrieval software is included on the CD-ROM. System requirements include an 80386 or faster microcomputer, 4 MB of RAM, 4 MB of hard disk space, DOS 3.3 or later, MS-Windows 3.1, a CD-ROM player with Extensions 2.0 or later, and a mouse.

The CD-ROM will be distributed free to the land-grant libraries. Additional copies may be purchased from the ASA for \$25.00 each by contacting:

American Society of Agronomy
677 South Segoe Road
Madison, Wisconsin 53711 USA
Fax: 608-273-2021

—Martha Feldman

NAL Annual Report for 1996 Available



The National Agricultural Library *Annual Report for 1996* is now available. The 22-page report highlights more than 40 programs and activities of the library. Major sections of the report provide an overview of NAL and general activities and focus on electronic resources, improving services, technology, and responding to agricultural concerns. Tables provide statistical data related to the program areas, and a list of electronic addresses is included for rapid access to NAL services.

Copies of the reports for most previous years beginning in 1989 are also still available (except 1991).

To obtain a copy of the current or previous reports, send a request with a self-addressed label to:

Shirley Evans, Secretary
Public Affairs, Room 204
National Agricultural Library
10301 Baltimore Avenue
Beltsville, Maryland 20705-2351

1997 LJI Available on WWW

The *List of Journals Indexed in AGRICOLA 1997 (LJI)* is now available on the Internet World Wide Web. The URL is:

< <http://www.nal.usda.gov/indexing/lji97/> >

This document lists pertinent information regarding journals currently being indexed for AGRICOLA (AGRICultural OnLine Access), NAL's computerized bibliographic database. Furthering NAL's commitment to convert from paper to electronic publications, the 1997 LJI is available electronically and printed copies are no longer being distributed.

The 1997 LJI includes titles indexed for AGRICOLA as of January 1997. The LJI is updated annually to reflect additions, deletions, and other changes to the journals covered by AGRICOLA. The current LJI includes the following sections: Titles Added During 1996, Titles No Longer Indexed, Journals Abstracted in AGRICOLA, List of Journals Indexed in AGRICOLA 1997, Abbreviated Titles, and Subject Category List.

The fullest entry for each journal appears in the main section and contains the full title, abbreviated title, NAL call number, International Standard Serial Number (ISSN), publisher, place of publication, indexing coverage of the journal (i.e., indexed selectively or cover-to-cover), and a notation if an author abstract is included in the records. Other sections include fewer data elements.

The LJI is an important reference tool for indexers, catalogers, reference librarians, and other users of the database.

For additional information, contact:

Carol L. Dowling
USDA, ARS,
National Agricultural Library
10301 Baltimore Avenue, Room 011
Beltsville, Maryland 20705-2351

Telephone: (301) 504-6829
TDD/TTY: (301) 504-6856
Fax: (301) 504-5213
Internet/E-mail: cdowling@nal.usda.gov

— Carol L. Dowling

NALSAC Produces Administrative Support Handbook

The National Agricultural Library Secretarial Advisory Council (NAL-SAC) recently produced a Secretarial and Administrative Support Handbook. This project was a major goal set forth by the Council in FY 96.

Shirley L. Evans headed a committee comprised of NAL secretarial staff volunteers that produced 15 chapters of information that provide written guidance and references on administrative and clerical procedures at the Library. The committee members are: Shirley L. Evans and Jannette Shuford-Hall, Office of the Director; Ann Palmes, Maria Archer and Joanne Metcalf, Technical Services Division; Gail DeAtley, Nelsie Jameson, Sharon Middleton, Olga Weston, and Delores Houchens, Public Services Division.

The handbook contains samples of forms and correspondence. It also contains directives, safety procedures, travel information, and extensive information about NAL and its services. The handbook was published in loose-leaf form to allow for updating when necessary. The committee meets on a regular basis to review and publish changes or new information.

NAL management has recognized the handbook as a valuable working tool not only for secretarial staff, but any NAL staff member seeking information about administrative procedures. The handbook committee was recently recognized by NAL Director Pamela André with a merit award. The citation for the award reads: In Recognition of Exemplary Effort as Part of the National Agricultural Library Secretarial Advisory Council subcommittee that developed the NAL Secretarial and Administrative Support Handbook.

— Shirley L. Evans and Mary L. Silva



photo: P. Bickerton

NALSAC Handbook Committee members with their new handbooks; (L-R) Ann Palmes, Acquisitions/Serials – Council Chairperson; Shirley L. Evans, Public Affairs – Handbook Committee Chairperson; Joanne Metcalf (since retired), Indexing; Jannette Shuford-Hall, Director's Office; Olga Weston, Public Services; and Gail DeAtley, Information Centers. Missing from the photo are: Maria Archer, Technical Services; Nelsie Jameson and Sharon Middleton, Reference & User Services; and Delores Houchens (since left NAL), Document Delivery.

NAL Telephone Directory Now on WWW

The NAL telephone directory is now available on the NAL Home Page on the Internet World Wide Web. The URL is:

< [http://www.nal.usda.gov/
general_info/
phonelist.htm](http://www.nal.usda.gov/general_info/phonelist.htm) >

— Sheree Hawkins

NALSAC Presents Ergonomic Workstation Demonstration

On May 8, 1997, the National Agricultural Library Secretarial Advisory Council (NALSAC) presented an ergonomic workstation demonstration to the NAL staff in two sessions. Ophelia Falls, Director of USDA's TARGET Center (Technology Accessible Resources Gives Employment Today) demonstrated computer keyboards and accessories and furniture designed to prevent the onset of repetitive stress disorders. Included in the demonstrations was information on how to locate and select ergonomic equipment.

Jo Anne Campbell from BodyBilt Seating demonstrated proper workstation seating. Staff attending the demonstration sessions had the opportunity to test the equipment and seating.

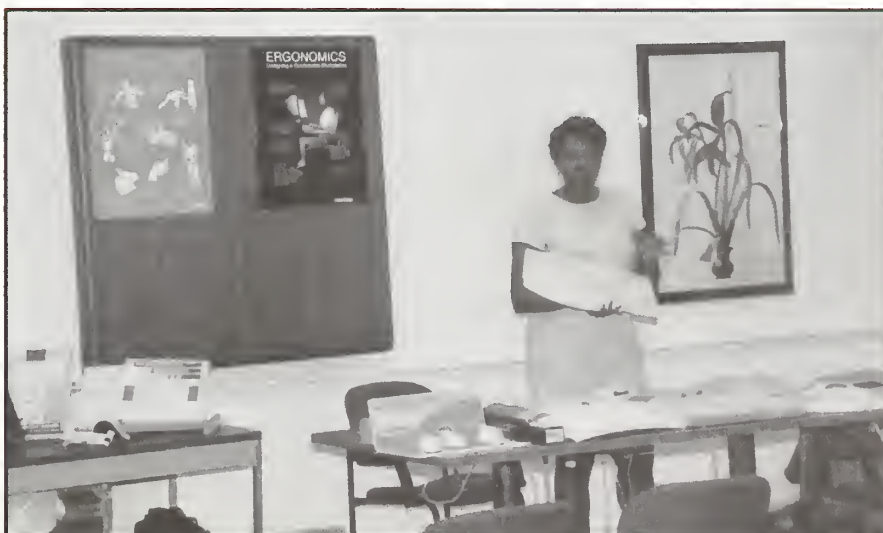


photo: J. Swab

Ophelia Falls, Director of USDA's TARGET Center, shows a computer keyboard at the ergonomic workstation demo.

NAL Support Staff Meets Local ARS Secretarial Council Members

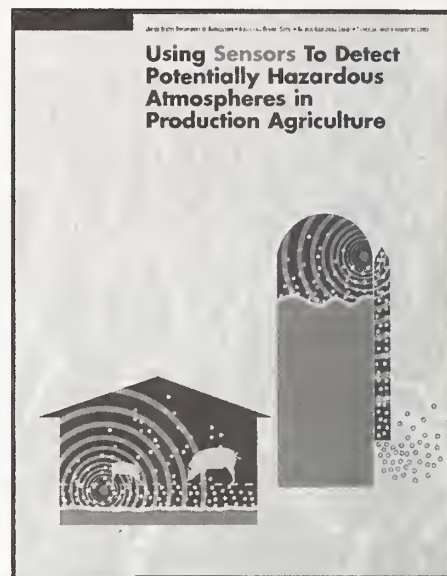
by Ann Palmes, Chairperson,
NALSAC

On November 7, 1996, the National Agricultural Library Secretarial Advisory Council (NALSAC) held an open house to seek to strengthen professional relationships with the Agricultural Research Service's Beltsville Area, National Program Staff, and Administrative and Financial Management secretarial councils and to share information about the resources and services of NAL.

Pamela André, NAL Director, opened the program with a warm welcome. Rae Dubois, Gift and Exchange

Unit, gave an overview of the NAL gift program and explained how donations to the library were received. Deborah Richardson, Educational Programs Unit, gave a demonstration of *Plant-It!*, a multimedia landscape plant selector CD-ROM. Susan Chapman, Reference Branch, and Robert Anderson, Educational Programs Unit, provided tours of the library.

After the formal program, a brief social gathering was held for all of NAL's secretarial support staff to meet and network with the visiting council members. The interaction among these groups proved to be a positive experience for everyone.



vironments as having "potential for use in multi-gas monitors for agriculture."

Reports Available on Sensor Use to Reduce Farm Injuries

NAL's Technology Transfer Information Center (TTIC) just released two new publications aimed at reducing the risks associated with farming.

Using Sensors on Agricultural Equipment To Reduce Human Risks and *Using Sensors To Detect Potentially Hazardous Atmospheres in Production Agriculture* were produced by TTIC in conjunction with safety specialists and engineers from The Pennsylvania State University and the University of Illinois, and with the cooperation of the Equipment Manufacturers Institute and farm equipment manufacturing industry representatives.

Federal laboratory representatives, private industry, and the academic community joined forces to identify commercially available and emerging sensor solutions to two serious threats to the health and well-being of farm workers, namely, injuries or death from farm machine entanglement and toxic and combustible gases in confined spaces such as silos and manure pits. The report authors evaluated the potential solutions using the the farm

equipment manufacturing industry's technology requirements. The solutions that best met the industry needs are featured in the two new reports.

The agricultural equipment sensor report concludes that "a review of the literature and an analysis of commercially available and prototype (sensor) systems for the detection of human presence has provided very few systems that show sufficient promise for using sensors on agricultural equipment to reduce human risks while meeting the constraints and limitations identified by industry."

The report does mention, however, several sensors that may hold promise, but concludes that "additional research is needed" into these systems to determine their appropriateness for the various applications in which farm equipment is used.

The hazardous atmospheres sensor report is more optimistic, pointing to the large number of solid-state sensors currently being used in non-farm en-

"From what is known of gas detection systems today," the report states, "personal gas protection multi-gas monitors capable of monitoring continuously for several different known gases are the detection instrument of choice, and they are already available commercially."

The authors used these findings to request funding to test the commercially available systems under strenuous agricultural environments that are unlike other known environments. In late 1996, the National Farm Medicine Center, a National Institute of Occupational Safety and Health (NIOSH) Regional Center for Agricultural Disease and Injury Research, granted the Illinois team \$73,000 to continue their research.

TTIC issued these reports in draft form to the farm equipment manufacturers in 1995, and recently distributed them to sensor manufacturers to advise them that commercial opportunities may evolve from the report findings.

Copies of the reports are available by contacting:

Technology Transfer
Information Center
National Agricultural Library
10301 Baltimore Avenue
Beltsville, MD 20705-2351

**Using Sensors on
Agricultural Equipment
To Reduce Human Risks**



Telephone (301) 504-5218
TDD/TTY: (301) 504-6856
Fax: (301) 504-7098
Internet/E-mail: ttic@nal.usda.gov
— Kate Hayes



**News from
Other
Libraries**

Olsen Receives 1997 Oberly Award

Wallace C. Olsen, senior research associate at the Albert R. Mann Library, Cornell University, has been awarded the 1997 Oberly Award for Bibliography in the Agricultural Sciences for his contribution as series editor of *The Literature of the Agricultural Sciences* (Ithaca, N.Y.: Cornell University Press, 1991-96).

The award is given in odd-numbered years and includes a cash prize and citation donated by the Oberly Endowment Fund. The award is sponsored by the Science and Technology Section of the Association of College and Research Libraries (ACRL), a



photo: Jon Reis/PHOTOLINK

Wallace C. Olsen

NAL Runner-Up in “Battle of Web Meisters”!

Wayne Olson, Reference, NAL

The National Agricultural Library web site recently finished in second place in the “Battle of the Web Meisters” sponsored by the National Federation of Abstracting and Information Services (NFAIS). NAL was selected as finalist from a field of over 50 competing organizations. The finalists presented their web sites at a session of the 39th Annual Conference of NFAIS held in Philadelphia earlier this year.

The finalists each gave a presentation on their organizational web sites. Each presentation including reasons for building the web site, what the organization hoped to accomplish with it, and some lessons learned through its development, construction, and use. In addition, each presentation in-

cluded offline images of the organizational home page and a sampling of other pages from the web site.

The organizations selected as finalists were: the American Institute of Aeronautics & Astronautics; the American Psychological Association; Engineering Information, Inc.; the National Agricultural Library; Ovid Technologies; and Sociological Abstracts. NFAIS conference attendees voted for the “best” web site. When all the votes were totaled, the American Psychological Association web site finished in first place, and NAL finished in second place.

The URL for the NAL home page is:

< <http://www.nal.usda.gov> >

division of the American Library Association. The 1997 Oberly Award was presented June 30 during the ALA Annual Conference in San Francisco.

JoAnn DeVries, chair of the award committee, said, “The Oberly Committee was impressed by the magnitude of this seven-volume series which comprehensively describes the most important agricultural literature published.”

Olsen has held positions as director of the Core Agricultural Literature Project and agricultural information scientist at Cornell University, and previously was Chief of Field and Special Programs, Deputy Director for Library Operations, Chief of the Library Services, and liaison officer to land-grant libraries at the National Agricultural Library.

—ACRL

1997 Oberly Award Goes to The Literature of Agricultural Sciences

The Literature of the Agricultural Sciences, edited by Wallace C. Olsen, received the 1997 Oberly Award for excellence in agricultural bibliography. This award, sponsored by the Association for College and Research Libraries and given in odd-numbered years, was established in 1923 in memory of Eunice Rockwood Oberly, a bibliographer with the USDA Division of Animal Industry during the first part of this century.

The Literature of the Agricultural Sciences is a seven-volume bibliography published by the Cornell University Press:

- *The Literature of Forestry and Agroforestry* (1996; Peter McDonald and James Lassoie, editors; ISBN 0-8014-3181-6, \$79.95)
- *The Literature of Crop Science* (1995; Wallace C. Olsen, editor, ISBN 0-8014-3138-7, \$79.95)
- *The Contemporary and Historical Literature of Food Science and Human Nutrition* (1995; Jennie Brogdon and Wallace C. Olsen, editors; ISBN 0-8014-3096-8, \$69.95)
- *The Literature of Soil Science* (1994; Peter McDonald, editor; ISBN 0-8014-2921-8, \$69.50)
- *The Literature of Animal Science and Health* (1993; Wallace C. Olsen, editor; ISBN 0-8014-2886-6, \$79.95)
- *The Literature of Agricultural Engineering* (1992; Carl W. Hall and Wallace C. Olsen, editors; ISBN 0-8014-2812-2, \$67.50)
- *Agricultural Economics and Rural Sociology: The Contemporary Core Literature* (1991; Wallace C. Olsen, editor; ISBN 0-8014-2677-4, \$57.50)

This series is a work of international and historic significance. In each vol-

ume, lists of recent core agricultural literature — published since 1950 — are evaluated according to their importance for both developed and developing nations. In all but the first volume, lists of core historical research literature of agriculture are also presented. This series, then, contains a comprehensive descriptive bibliography of the most important agricultural literature ever published.

Each volume was compiled using a landmark evaluation process developed at Cornell's Mann Library with support from the Rockefeller Foundation and the National Agricultural Library. Mr. Olsen and a steering committee of agricultural researchers and librarians determined the scope of each volume and analyzed 85,000 citations representing scientists' judgments of their colleagues' publications. He and his team then recruited, presented lists to, and collected feedback from more than 400 subject experts in every continent (except Antarctica!).

Combining evaluators' rankings and citation counts yielded a bibliography of the 8,400 most important monographs and the 363 core journals in all of agriculture. Sixty-eight different scholars were involved in the writing, including five volume editors.

The bibliography of current core agricultural literature contained within this series will be useful for building collections in countries where access to such literature is difficult. In the United States, perhaps the most significant contributions of these volumes are the historical core lists and the techniques with which they were compiled.

The approach of using subject experts to identify core literature in a discipline is the foundation of the U.S. Agricultural Information Network's national preservation plan, currently being carried forward by land-grant libraries and the National Agricultural Library. This approach pioneered in *The Literature of the Agricultural Sciences*

has made it possible to set preservation priorities in a world where there is simply not enough money to save every single publication. This is a model which will be used by other states to prioritize and preserve their most important agricultural publications. It could also be applied to the literature of any discipline.

In addition to the core lists of current and historical material, another bibliography is contained within these volumes. In each, a chapter lists agricultural reference resources, providing a long-awaited update to Blanchard & Farrell's *Guide to Sources for Agricultural and Biological Research* (Berkeley: University of California Press, 1981). The seven volumes also contain important special features: additional chapters contributed by renowned agricultural experts. These supplement each volume's bibliographic core and include surveys of the nature of publishing in each discipline; analyses of the literature; influences of primary societies and publishers; and related overviews.

The in-depth analyses of the literature provide guides to the trends, difficulties, and scope of agricultural literature in the past twenty-five years. A conclusive finding is that 41% of agricultural literature has to do with crops and their protection. The complete seven-volume series of *The Literature of the Agricultural Sciences* is available from the Cornell University Press at a special price of \$400.00 (compare to \$504.75 if each volume is purchased separately).

— Mann Library, Cornell University

[For a biography of Wallace C. Olsen or information on the USAIN preservation program and related articles see *ALIN*, 22(6-8):10-12, June-August 1996, and earlier issues.]

FAO Documentation

The University of Saskatchewan Libraries have announced a new database called *FAO Documentation*, available on the Libraries' U-Search system. *FAO Documentation* is a database of bibliographic citations to scientific reports published by the Food and Agriculture Organization (FAO) of the United Nations (UN).

FAO Documentation is available to all users, including the public, via WWW and telnet access. The WWW address is:

<<http://library.usask.ca>>

and the telnet address is:

<[library.usask.ca](telnet://library.usask.ca)>

(at the login type: **usearch**; and at password, press: **return**).

At the U-Search home page under

"Subject Access" select "Agriculture and Veterinary Medicine" databases where *FAO Documentation* is listed alphabetically. It is searchable using the following fields: author, title, subject, publication date, microfiche number and language. There is online help while searching this InfoAccess database. The reports referred to in the database are found in FAO microfiche collections available in many libraries around the world.

For more information, contact:

Jill Crawley-Low

*University of Saskatchewan Libraries
Saskatoon, Canada*

S7N 5A4

Internet/E-mail:

crawley@sklib.usask.ca

— Jill Crawley-Low

■ Completed the bylaws revision process. "Thank you" to Kay Mowery, University of Georgia, for shepherding that to successful conclusion.

■ Drafted a procedures manual to insure the continuity of the operation of the organization. "Thank you" to Kay Mowery for pulling that together.

■ Held the first election under its new bylaws. "Thank you" to Peggy Blake, National Agricultural Library, for overseeing the election and to her committee of Dick Wallace, A.E. Staley Manufacturing Co.; Dick Rohrer, University of Minnesota; Norma Kobzina, University of California, Berkeley; and Anita Battiste, University of Florida.

■ Continued making progress with the identification and preservation of significant agricultural literature. "Thank you" to the many people at various libraries around the nation for their continued work in this major area, and "thank you" to Sam Demas and Wes Boomgaarden for their efforts and to Jan Kennedy-Olsen, Cornell University, for the progress update later in this report.

Election results

President-elect:

Rita Fisher, Washington State University

Director (two-year terms):

Debra Currie, Louisiana State University

Irwin Weintraub, Rutgers

Pat Wilson, University of Kentucky

Director (one-year term):

Kay Mowery, University of Georgia (re-elected)

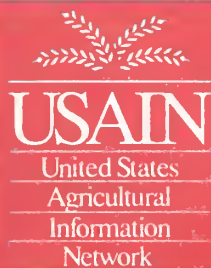
Continuing Council Members:

President: Toni Powell, University of Kentucky

Secretary/Treasurer: Amy Blair, Michigan State University

NAL Liaison: Robyn Frank, National Agricultural Library

Past-President: Cynthia Via



USAIN Update

by Antoinette Paris "Toni" Powell,
USAIN President

USAIN had four successful membership meetings this calendar year. The ALA Update at NAL in February, the USAIN Membership Meeting in Tucson in April, the SLA Update in Seattle in June, and the ALA Update in San Francisco in June were all well attended. This report provides an update on USAIN activities for those who could not attend the meetings. "Thank you" to all of you who gave your time and talents to USAIN.

Accomplishments

USAIN accomplished a great deal during the past year:

■ Held a joint meeting with the International Association of Agricultural Information Specialists in Tucson, Arizona, in April. [A full report will appear in an upcoming issue of *ALIN*.] "Thank you" to Barbara Hutchinson, Carla Casler, and Michael Haseltine, as well as a number of other people at the University of Arizona and other places, for putting on such a great conference.

■ Drafted an Action Plan to chart its course. "Thank you" to Anne Fox, Western Oregon State College, for taking on that effort.

■ Completed a current membership survey. "Thank you" to Amy Paster, Pennsylvania State University, and her committee for that work.

Directors:

Barbara Hutchinson, University of Arizona
Andrea Powell, CAB International

This was an election where USAIN was the winner no matter what the outcome of the election. USAIN appreciates the good work of the Nominating Committee and the willingness of the candidates to run.

USAIN wants to take this opportunity to publicly thank Dana Boden, University of Nebraska-Lincoln, and Anne Fox, Western Oregon State College, who have completed their terms as Directors and are leaving the Council, for their two years of hard work and diligence. USAIN had an ambitious agenda two years ago and Dana and Anne contributed greatly to the success of the organization. Dana contributed greatly to both the Bylaws effort and the Procedures Manual. Anne will forever be known as the "Mother of the Action Plan." Anne took all of the years of member surveys, all the files with odds and ends of information and crafted them into a plan for the future of USAIN. Each member will be getting a copy of the plan but the Council wanted to take this opportunity to acknowledge the work of both Anne and Dana.

Preservation

USAIN's national preservation plan for agriculture continues as the only national, discipline-based preservation plan. Not only is this the unique plan of its kind, it is also unique in having been successful at getting funding for actual preservation. The plan and the work being accomplished are guided by USAIN's Preservation Steering Committee and is certainly something that should bring pride to the membership. Currently under way are the state based preservation projects and work on the core historical literature (both of which are substantial parts of the preservation plan). In addition, hard work led to completion of another grant proposal to NEH for the next group of state projects (close to a million dollars).

In March 1997 the National Agricul-

tural Library and Economic Research Service of USDA, with the assistance and cooperation of Cornell University, the Government Printing Office, the Farm Foundation, and others held a very successful national conference concerned with archiving USDA digital data which was carried on under the rubric of furthering the national preservation plan. [A report of this conference begins on the first page of this issue of *ALIN*.]

The Future

USAIN's Goals for 1997-1998 as outlined in the action plan are:

- Strengthen membership and communication within the membership
- Support NAL and increase communication and cooperation with NAL
- Increase communication with other agricultural organizations
- Provide education and professional development opportunities for agricultural information specialists.

This is an ambitious agenda and USAIN will need help to accomplish everything. The USAIN Council and committees need volunteers to work on each of these activities. Please think about them and volunteer your talents. USAIN has a lot of good people in the Network, so it can be an effective organization.

There are a number of critical issues that the Network needs to respond to with direction from the Network membership, and among them are:

- Respond to the changes in the AGRICOLA database based on membership needs. Anne Fox, Western Oregon State College, has agreed to be the convener of the AGRICOLA Interest Group and Rob McGeachin, Texas A & M University, and Carla Casler, University of Arizona, have agreed to work with Anne on gathering membership input.

- Play a key role in the legislative process. Sarah Kelly, Purdue University, has agreed to chair the Legislative Committee. The Committee will work on identifying legislative matters and getting the information out to USAIN members in a timely fashion. The only way USAIN can be effective is by responding in a timely fashion. The listserv, USAIN-L, plays a key role in providing information so the Network can influence the legislative process. It is important that all members subscribe so the Network can work effectively in this area. The subscription address for USAIN-L is:

listserv@listserv.lib.ncsu.edu

Volunteers

The USAIN Action Plan was based on member surveys that were taken over a number of years. In each survey members said they wanted to get more involved in USAIN. Here is the opportunity. Please volunteer to give USAIN some of your time and talent.

USAIN needs good people to move the Network forward. Currently the committees and working groups that provide the Council with guidance, listed below, are filling their membership. Please volunteer to help with USAIN's big agenda. Thank you in advance for considering this.

Members Needed for one year appointment — (3 or 4 people for each):

Legislative Committee — Sarah Kelly, Chair

Networking Committee — Chair not yet appointed

Program Planning Committee (1999 Conference) — Jodee Kawasaki, Chair

Working Groups — (3 or 4 people for each)

Develop a calendar of events
Develop a mentoring program

For more information or to volunteer contact Toni Powell at the address at the end of this report. Thank you!! We look forward to working with you this coming year.

The Next Conference

USAIN has an offer from Kansas State University to host the 1999 USAIN conference. This is tentative but the Council hopes to finalize the plans in the near future.

Let me conclude with the personal note that it has been a rewarding year for me and the rest of the USAIN Executive Council. We are looking forward to a productive 1997/98.

Toni Powell on behalf of the USAIN Executive Council

*Antoinette Paris (Toni) Powell
Director, Agriculture Library
N-24 Agricultural Science Center
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Fax: 606-323-4719
E-mail: <apowell@ca.uky.edu>
or <apowell@pop.uky.edu>*

ships with the research and business communities. She has greatly expanded the role that libraries and information play in science, engineering, and the process of technology transfer."

Hayes has been with the National Agricultural Library since May 1985, when she joined the staff in a temporary position defining home economics terms for the *CAB Thesaurus*, used in NAL's AGRICOLA database. After 1986, when she joined NAL permanently, she served as coordinator of the Family Information Center and the Fiber and Textile Information Center. She also was instrumental in launching NAL's Rural Information Center, the Youth Development Information Center, and the Water Quality Information Center. She has headed TTIC since 1990.

Hayes has written extensively on human development, agricultural research, technology transfer and the risks associated with agriculture. She has also been invited to speak at numerous national library and technology transfer conferences. From October 1990 to January 1995, Hayes was the editor of *T'Squared*, the monthly news-



**Staff
Update**

NAL's Hayes Named Librarian of the Year

Kathleen C. Hayes, coordinator of the Technology Transfer Information Center (TTIC) of the National Agricultural Library, was selected as the first "Librarian/Information Specialist of the Year" by the Agricultural Research Service (ARS), the chief USDA research agency of which NAL is a part. Hayes and other ARS employees were honored at a ceremony, Wednesday, December 11, 1996, in Beltsville, Maryland.

A native of Weatherly, PA, Hayes was recognized for her innovative leadership of TTIC, including instituting new approaches to customer services, reducing the time needed to respond to customer requests, and "elevating the role of library and information services in the science and technology community." TTIC seeks to facilitate the transfer of government agricultural research results to the private agricultural community.

"Since Kate established TTIC in 1990, her leadership has been a key to the center's success," said NAL Director Pamela André. "She has worked

tirelessly to establish the center's information functions and develop partner-



USDA photo

Kate Hayes receives ARS 1996 Librarian of the Year Award from Edward B. Knipling and Pamela Q.J. André.

Alfa Stevens Completes Fellowship at NAL



photo: J. Swab

Alfa Stevens



photo: J. Swab

In front of the ARS "1996 Librarian of the Year" Exhibit, Kate Hayes shares honors with her mother, Mrs. Myrtle Hayes, who came from Pennsylvania to attend the Awards Ceremony.

letter of the Technology Transfer Society, and from 1992 to present, she chaired the Information Systems Committee of the Federal Laboratory Consortium.

Hayes has a bachelor's degree in home economics education from College Misericordia in Dallas, Pennsylvania, and a master's degree in agriculture and extension education from the University of Maryland, College Park. She began her career in 1969 as the home economist in Pike County, PA, for Pennsylvania State University's Cooperative Extension Service, and went on to be the Pike County Extension director, where she served till 1983 when she entered graduate school in Maryland.

Hayes joins a group of distinguished ARS employees past and present honored for their outstanding accomplishments. In addition to the recognition of Hayes as Librarian/Information Specialist of the Year, others were recognized at the December ceremony in these awards: ARS Science Hall of Fame; Scientists of the Year; Technology Transfer; AFM Support Awards for Excellence; T. W. Edminster Research Associate; Secretary of the Year. Hayes and the other awardees were featured in an exhibit, and each also received a plaque and cash award.

This summer Alfa Stevens completed a ten-month fellowship at NAL as a Department of Commerce Science and Technology Fellow (from September 1996 to June 30, 1997). The ComSci Fellowship Program, established in 1964, provides a unique opportunity for senior level federal employees to study national and international issues relating to the development, application, and management of science and technology. The ComSci Fellows meet regularly for seminars and site visits to augment their work assignments. Other activities include a one-week congressional orientation and a one-week field trip which combines science and technology oriented visits to government agencies, industry, and academia. This year's field trip was to Houston, TX.

At NAL, Stevens worked on the Agricultural Network Information Center (AgNIC) Project with Sandy Facinoli on the Reference Pilot Project and with Richard Thompson and Bill Feidt on the *Directory of Experts*. She helped plan and prepare for the AgNIC Review and Future Directions Meeting hosted by NAL in February, 1997. She also helped to draft a Funds for Rural America (FRA) grant proposal requesting funds for the further enhancement and formalization of AgNIC.

While at NAL, Stevens also learned more about "the Internet" and "using HTML," something for which her previous job left no time. When awarded the fellowship, Stevens was the Deputy Chief of a large systems administration and networking branch responsible for serving about 1500 customers at the National Security Agency. Stevens said she enjoyed working at NAL and learning more about NAL's operations and programs and working in an agency other than her own. "The time I've spent at NAL has been very rewarding, both personally and professionally."

After leaving NAL, Stevens will return to the National Security Agency, where she will assume a senior staff position in the Information Technology Office, Operations Directorate.



photos: J. Swab

(Above) Carol Ditzler reads Certificate of Appreciation and letters to Helen Kondilas and (Below) Helen cuts her farewell cake.

Helen Kondilas Moves to Greece

On July 15, 1997, with a lot of tears and much friendship, the library staff bid "*Kali tichi kai* (good luck)" and "*Kalo taxithi* (have a good trip)" to Helen Kondilas who, after 18 years of service at NAL, is moving to Greece with her family, two young daughters, Flora and Julia, her husband, Konstandinos Kondilas, and her mother, Mrs. Kretsi. The staff remembered with fondness the events they shared with Helen from the time of her joining the library staff as a temporary in January 1979 as the very young Miss Kretsi fresh out of Bladensburg (MD) High School. After a year, Helen became a permanent employee in the microforms area of the then Collections Maintenance Section, and then worked many years in the Special Collections section. After several promotions and more than a half year's detail to the Director's Office, she concluded her NAL service with 18 months in the Document Delivery Services Branch, where she searched for requested materials and borrowed them on Inter-Library Loan. The staff also remembered Helen's visits to the land of her birth—Greece, her engagement there, her wedding here in St. Sophia's Cathedral in Washington, DC, the birth of her daughters, and the recent return of her husband to Greece to buy a café in Peiraieus.

At the luncheon and following reception for Helen on July 15, attended by about 80 current and former members of the NAL staff, Carol Ditzler said: "For 18 years Helen Kondilas has provided NAL customers and staff with excellent service. From the early years of managing

the microforms collections, through many years in Special Collections, and now for the last 18 months in Document Delivery, Helen has always found ways to serve. Her commitment to assisting NAL achieve its goals and objectives is obvious as you look around this room and see the people who have come to thank her and say goodbye. Helen's knowledge and abilities and, more importantly, her willingness to use them, have been widely valued by everyone who has worked with her."

Ditzler, Head of the Document Delivery Services Branch, also presented Helen with a Certificate of Appreciation awarded by NAL Director Pamela André, with the following citation: "For her efforts in the provision of exceptional service to NAL customers and staff."

André, who was in China at the time, wrote to Helen, and Ditzler read to the assembled staff, "You warned all of us that you would be moving to Greece someday, but I was still taken by surprise when I learned that you had actually set a date to leave. Perhaps I did not want to see the day come when you would leave the Library. The day has arrived and I want to wish you the very best on your new journey in life."

André went on to say in her letter to Helen: "You have been a valuable staff member at the National Agricultural Library. We will miss your dedication and skill in the work that you do. You have always accepted responsibility willingly and did the best possible job in all circumstances. You can be very proud of the service you provided to NAL's staff and customers."

André closed her letter with the wishes spoken to Helen many times in the days surrounding her closing hours at NAL: "Good luck to you and your family. Please keep in touch." Many times those words were spoken with the tears of parting friends, despite resolutions of all concerned to progress to the next stage of their friendships without tears.

—Joseph N. Swab



USDA Program and Exhibit Honored FDR's Contributions to Agriculture

In October 1996 Agriculture Secretary Dan Glickman hosted an exhibit highlighting the lasting contributions of Franklin Delano Roosevelt to American agriculture and rural life and a special program celebrating his legacy. Both were part of Roosevelt History Month proclaimed by President Clinton.

The program honoring Roosevelt, entitled *Franklin D. Roosevelt's Legacy to Agriculture and Rural America*, was held on October 1, in USDA's Jefferson Auditorium. The Moderator, Charlie Rawls, Executive Assistant to the Deputy Secretary of Agriculture, opened the Symposium and introduced Secretary Glickman, who welcomed the participants. An overview of FDR History Month, was given by Peter

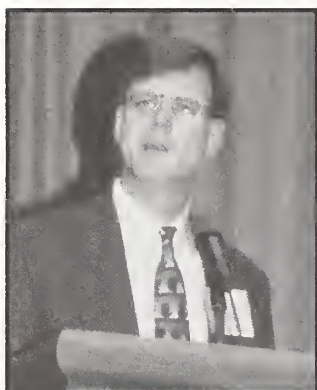
Kovler, Chair, Committee for Roosevelt History Month.

Dr. David E. Hamilton, Associate Professor of History at the University of Kentucky and a recognized expert on Roosevelt's role in agriculture, gave the keynote address, "Farming and Democracy: Franklin Roosevelt and American Farm Policy." The keynote address was followed by presentations by a panel of speakers whose papers covered the development and current status of agricultural and rural programs initiated by the Roosevelt Administration. The speakers were:

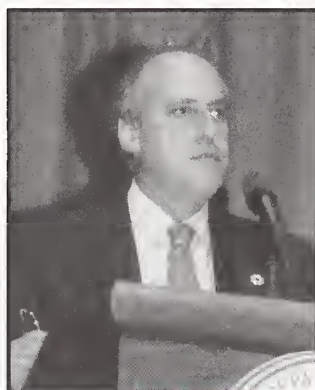
Paul W. Johnson, Chief, Natural Resources Conservation Service; Mary Ann Keffe, Deputy Under Secretary, Food, Nutrition, and Consumer Services;

Horace Godfrey, Retired, former National Administrator of the Agricultural Stabilization and Conservation Service (1961-1969); and Douglas Helms, Senior Historian, Natural Resources Conservation Service.

Following the program the exhibit opened to USDA staff and guests, and on October 2 the exhibit opened to the public on the patio of the USDA's Jamie L. Whitten Federal Building, where it ran through October 29. Entitled *A Lasting Legacy: FDR, Agriculture and Rural America*, the USDA exhibit focused on six areas in which FDR took action during the 1930's and 1940's to help stabilize agriculture in the United States during the Depression and World War II era:



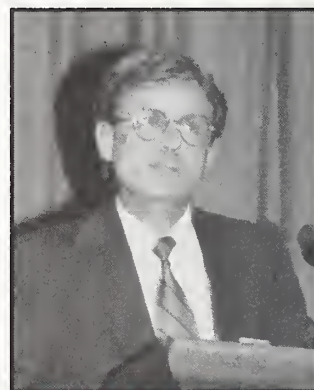
Charlie Rawls



Dan Glickman



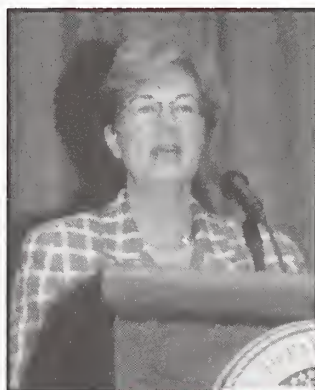
Peter Kovler



David E. Hamilton



Paul W. Johnson



Mary Ann Keffe



Horace Godfrey



Douglas Helms

photos: Joseph N. Swab

- Equity and equality for agriculture;
- A decent life for rural America;
- Conservation of natural resources;
- An expanded USDA role in agricultural research;
- Food security and better nutrition for all Americans; and
- A world role for U.S. agriculture.

Historic photographs of FDR and U.S. agriculture during the era were featured in the exhibit, many of them from the Special Collections of the National Agricultural Library. At the exhibit NAL also made available a selected bibliography, *A Lasting Legacy: FDR, Agriculture and Rural America*, compiled by Susan Chapman of the NAL Reference Section.

A reception narrative on FDR's involvement with folk music was presented by Joe Wilson, Executive Director, National Council for the Traditional Arts. Reception music was provided by Sam Morgan and Randy Ihara.

Many people worked on the production of the symposium and exhibit, including several from NAL. The USDA taskforce that planned the FDR celebration was chaired by Catherine E. Woteki, (then) Acting Under Secretary for Research, Education, and Economics. Keith Russell, NAL's Deputy Director, represented the library on the USDA taskforce and coordinated many aspects of the event.



photo: J. Swab

(Above) Books, pamphlets, and posters related to President Franklin D. Roosevelt from the NAL collections and other USDA sources in the FDR History Month Exhibit at the USDA patio.

(Below) Photographs from NAL collections and other USDA sources were used in many of the exhibit panels.



FDR History Month Materials Available

While supplies last, a packet of materials consisting of a videotape of the USDA Symposium, *Franklin D. Roosevelt's Legacy to Agriculture and Rural America*, with a copy of the symposium program, and a copy of the bibliography, *A Lasting Legacy: FDR, Agriculture and Rural America*, is

available by contacting:

Jannette Shuford-Hall
Office of the Director, Room 200
National Agricultural Library
ARS, USDA
10301 Baltimore Avenue
Beltsville, MD 20705-2351

Phone: (301) 504-6780
TDD/TTY: (301) 504-6856
Fax: (301) 504-7042
Internet/E-mail:
jshall@nal.usda.gov



USDA photo from NAL Special Collections

(Above) Franklin D. Roosevelt (seated) hands a crop reduction [cotton?] check to a farmer. Agriculture Secretary Henry A. Wallace is on right.

(Right) Holly McPeak, Nutrition Program Coordinator, Food and Consumer Services, and Keith Russell, NAL Deputy Director, coordinated many aspects of the FDR History Month celebration implemented by the USDA taskforce. Behind them is the title panel of the exhibit.

photo: J. Swab





photo from NAL Special Collections

Photo of a piece of art jointly commemorating the Civilian Conservation Corps and the U.S. Forest Service, USDA.

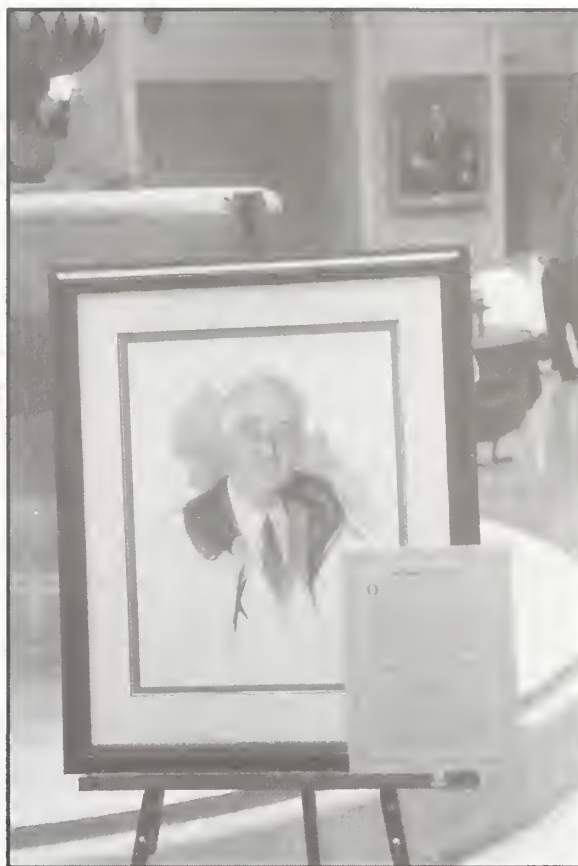


photo: J. Swab

A reproduction of "The Unfinished Portrait" of FDR by Elizabeth Shoumatoff that he was sitting for on April 12, 1945, when he suffered a cerebral hemorrhage shortly before his death that afternoon. The portrait was displayed as part of the Roosevelt exhibit in the USDA patio.

(Right) Sam Morgan (violin) and Randy Ihara (guitar) provided the music at the reception in the patio of USDA's Jamie L. Whitten Federal Building.

Behind them is a bas-relief memorial to the 69 USDA employees who died serving in WWI, 1917-18.

photo: J. Swab



Pre-Columbian Artifacts Exhibited at NAL

article and photographs
by Sheldon Cheney,
Reference Section, NAL

Everybody knows about the art and artifacts of the Aztecs, Mayas, and Incas. Many people do not realize that the Native Americans in what is now the United States also made fine art objects and built huge mounds. As part of Native American Heritage Month, NAL had a one-day display of rare and unusual pre-Columbian objects.

Displayed in the NAL lobby exhibit cases were effigy bottles and bowls shaped like people and animals, a stone mask, ceremonial stone axes, stone figures large and small, copper artifacts, mica artifacts, bone artifacts and tools, stone beads, birdstones, stone marbles and gamestones, shell and stone gorgets, among other objects. The collection also included many ceremonial pipes, mostly stone, some of pottery. The largest pipe weighed about 10 pounds. There were 4 different frog pipes, two alligators, two large ducks. One pipe was a skeleton. One was a woman kneeling down to grind corn, grindstone and corn in hand. Two pipes had mother of pearl inlay.

A few pieces from more recent historic periods were included, such as a bow, sheath, arrows, and quiver from the Great Plains which gave a good idea what pre-Columbian objects might have looked like since wood and leather buried in the ground soon rot away. Also, several ceremonial pipes from the 1800's were displayed with their long, decorated wooden stems to show how the pre-Columbian stone pipes were smoked using long stems.

The display was viewed by a steady stream of visitors, all very interested, even fascinated. For those who had Native American ancestors, it was a chance to see something of their heritage. Items for the display were from a private collection. (See also the last page of this issue of *ALIN*.)





**Water
Quality
Information
Center**

NAL Establishes Pfiesteria Web Page

Pfiesteria piscicida, the toxic organism killing fish and generating health concerns in some Maryland and North Carolina waterways, is the subject of a new Web page produced and maintained by the Water Quality Information Center (WQIC) of the National Agricultural Library (NAL). The Web address is:

< <http://www.nal.usda.gov/wqic/pfiest.html> >

The web site provides links to North Carolina State University laboratories

doing *Pfiesteria* research and other *Pfiesteria* information sites, and contains *Pfiesteria* fact sheets produced by Maryland and North Carolina State agencies and a WQIC-produced bibliography of scientific literature on *Pfiesteria*.

"We are trying to respond to the need for information on *Pfiesteria* by providing these links on the Internet in one convenient location," said Joe Makuch, WQIC coordinator. "In addition to North Carolina State, through this

web page a person can link to the Maryland Departments of Natural Resources, Agriculture, and Health and Mental Hygiene, and the North Carolina Department of Environment and Natural Resources. All of these agencies are providing *Pfiesteria* information."

Makuch said that his center will periodically update the site with links to other important *Pfiesteria* sites that are developed and with additional scientific literature on *Pfiesteria* that becomes available.

For additional information contact:

*Joseph R. Makuch, Coordinator
Water Quality Information Center
National Agricultural Library
ARS, USDA
10301 Baltimore Boulevard
Beltsville, Maryland 20705-2351*

*Telephone: 301/504-6077
TDD/TTY: (301) 504-6856
Fax: 301/504-7098
E-mail: jmakuch@nal.usda.gov
URL: <http://www.nalusda.gov/wqic>*

In Memoriam: William Yagodich

William "Bill" Yagodich, a former long-time NAL employee, passed away on April 16th in Veterans Hospital, Washington, D.C. He was buried in Arlington Cemetery on Wednesday, April 30th, with military honors following a funeral service in the Myer Chapel at the cemetery.

For many years Mr. Yagodich served as an acquisitions librarian at NAL until his retirement in the late 1980's. He was well-known in the library profession locally and nationally and in the international book trade.

Subsequent to his retirement, Mr. Yagodich volunteered to help with several library projects at NAL and other libraries.





New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB's* include search strategies. Unless otherwise specified, citations are from AGRICOLA.

The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the library and its information centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography*, *Special Reference Brief*, or other bibliographic work, circle the desired title(s) below and send your request with a self-addressed label to the specific Information Center or Branch originating the publication at:

[Name of Info Center or Branch]
National Agricultural Library,
USDA, ARS
10301 Baltimore Avenue
Beltsville, MD 20705-2351

As of June 1996, listings also include NAL bibliographies and miscellaneous publications that are *available electronically only*. These are listed separately as "Electronic Publications," and full texts are available at NAL's World Wide Web site on the Internet at the URLs specified or through the menu on NAL's home pages. Many NAL publications announced in previous issues of *ALIN* are also available on the Internet, and full texts of new publica-

tions frequently are made available electronically soon after announcement in *ALIN*. URL's are provided when possible or they can be found by using the menus in the NAL World Wide Web pages for each library branch or information center, or the listing "Other NAL Information Products" under "How to Access the Collection." The URL for NAL is:

< <http://www.nal.usda.gov> >

Occasionally NAL reprints publications, but such reprints are usually not listed here. However, in order to make the URL for electronic versions available, selected items will be listed under the heading "Reprints." Paper copies may still be available from the originating branch or information center.

Quick Bibliographies

Q.B.—97-03. Part-time Farming, Small Farms, and Small-scale Farming in the United States, June 1993-March 1997. 195 citations in English. Compiled by Mary V. Gold. Alternative Farming Systems Information Center. June 1997. Updates Q.B. 93-64. Electronic Version:

< http://www.nal.usda.gov/afsic/AFSIC_pubs/QB9703.HTM >

Q.B.—97-04. Housing, Husbandry, and Welfare of Rodents, January 1990-June 1997. 340 citations; languages: none excluded. Compiled by Tim Allen. Animal Welfare Information Center. June 1997. Updates Q.B. 93-52. Electronic Version:

< <http://www.nal.usda.gov/awic/pubs/awicbibs.htm> >

Q.B.—97-05. Careers in Agriculture, June 1993-March 1997. 218 citations; languages: none excluded. Compiled by Susan Chapman. Reference

and Users Services Branch. June 1997. Updates Q.B. 93-46.

Q.B.—97-06. Earthworms, January 1970-March 1997. 217 citations in English. Compiled by Jerry Rafats. Reference and Users Services Branch. July 1997. Updates Q.B. 92-16.

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Exhibits



photo : J. Swab

(Above, L-R) Holly McPeak, Nutrition Program Coordinator, FCS; Isabelle Kelly, retired, first Food Stamp Director, who shared food coupons from 1939 for the FDR exhibit; Jeanne Priester, retired, National Program Leader, Cooperative Extension, at the opening of USDA's Roosevelt exhibit (see pp. 26-29). (Below) Part of NAL's Native-American Heritage exhibit (see page 30).

photo below: S. Cheney



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